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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PETROLEUM				Lease or Unit Name O'NEILL B FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/25/02	Well No. 2
Completion Date 7/1/02		Total Depth 11900		Plug Back TD 11478		Elevation 3375GL	Unit Ltr - Sec - TWP - Rgn 10 24 26
Csg. Size 5 1/2	WT 17#	Set At 11900	Perforations: From: 11120 To: 11468		County EDDY		
Tbg. Size 2 3/8	WT 4.7	Set At 11000	Perforations: From: To:		Pool		
Type Well-Single-Branch-U.O. or G.O. Multiple SINGLE				Packer Set At 8300		Formation MORROW	
Producing Thru Tbg. Size		Reservoir Temp °F 184 @ 11000	Mean Annual Temp °F 60		Baro. Press -P _s 13.2		Connection SALES
L 11000	H 11000	G _g 0.775	CO ₂ 5.486	N ₂ 0.747	N ₂ S N/A	Prover N/A	Meter Run 4.026
		Taps FLG					
FLOW DATA				TUBING DATA		CASINO DATA	
No.	Flow Line Size	Orifice Size	Press p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	4 X 1.875		375	8.3	70	3245	PKR
2	4 X 1.875		350	15.6	60	3110	850
3	4 X 1.875		334	30.1	53	3025	865
4	4 X 1.875		341	46.6	50	2850	900
5						2650	910
RATE OF FLOW CALCULATIONS							
	COEFFICIENT (24 Hour)		√h _g P _u	Pressure P _u	Flow Temp Factor Ft	Gravity Factor F _g	Super Compress Factor F _{sp}
1	17.26		56.76	388.2	0.9905	1.136	1.05
2	17.26		75.27	363.2	1	1.136	1.049
3	17.26		102.23	347.2	1.007	1.136	1.048
4	17.26		128.47	354.2	1.01	1.136	1.05
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 624.3 Mcf/bbl		
1	0.56	530	1.3	0.907	A.P.I. Gravity of Liquid Hydrocarbons 53.5 @ 60 Deg.		
2	0.52	520	1.28	0.908	Specific Gravity Separator Gas 0.775 XXXXXXXX		
3	0.5	513	1.26	0.91	Specific Gravity Flowing Fluid XXXXXX Gm/cc = .780		
4	0.51	510	1.25	0.907	Critical Pressure *687 P.S.I.A. 666 P.S.I.A.		
5					Critical Temperature *406 R 418 R		
P _c 3258.2		P ₂ 10815.9					
No.	P ₁ ²	P _u	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.233}{\quad} = 2.011$		
1		3131	9803.1	812.7			
2		3052.3	9316.5	1299.4			
3		2890.2	8353.4	2262.4			
4		2707.9	7332.6	3283.3			
5							
Absolute Open Flow 5.371				Mcf/d @ 15.025	Angle of Slope (°)	59.2	Slope n 0.5952
Remarks: well produced 0.5 bbls 53.5 API GR. Condensate * - corrected for 5.486 % CO2							
Approved By Division		Conducted By: SIGNAL WIRELINE		Calculated By: BM		Checked By: BM	